

#15

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/747,029A

DATE: 03/05/2002
TIME: 09:56:03

Input Set : A:\INNS031.ST25.txt
Output Set: N:\CRF3\03052002\I747029A.raw

P.7

ENTERED

3 <110> APPLICANT: Union, Ann
4 Moereels, Henri
5 Meheus, Lydie
7 <120> TITLE OF INVENTION: PEPTIDES DESIGNED FOR THE DIAGNOSIS AND TREATMENT OF
8 RHEUMATOID ARTHRITIS
10 <130> FILE REFERENCE: 11362.0031NPUS00 INNS:031
12 <140> CURRENT APPLICATION NUMBER: US 09/747,029A
13 <141> CURRENT FILING DATE: 2000-12-21
15 <150> PRIOR APPLICATION NUMBER: EP 00870195.5
16 <151> PRIOR FILING DATE: 2000-09-08
18 <150> PRIOR APPLICATION NUMBER: EP 99870280.7
19 <151> PRIOR FILING DATE: 1999-12-21
21 <160> NUMBER OF SEQ ID NOS: 22
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 18
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Synthetic Peptides
33 <220> FEATURE:
34 <221> NAME/KEY: MOD_RES
35 <222> LOCATION: (1)..(3)
36 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp, Glu, Asn, Gln, His, Lys or Arg
38 <220> FEATURE:
39 <221> NAME/KEY: MOD_RES
40 <222> LOCATION: (4)..(4)
41 <223> OTHER INFORMATION: Xaa represents Ile, Leu, Val, Ala or Met
43 <220> FEATURE:
44 <221> NAME/KEY: MOD_RES
45 <222> LOCATION: (5)..(5)
46 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or
Trp
48 <220> FEATURE:
49 <221> NAME/KEY: MOD_RES
50 <222> LOCATION: (6)..(6)
51 <223> OTHER INFORMATION: Xaa represents Gly
53 <220> FEATURE:
54 <221> NAME/KEY: MOD_RES
55 <222> LOCATION: (7)..(7)
56 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or
Trp
58 <220> FEATURE:
59 <221> NAME/KEY: MOD_RES

60 <222> LOCATION: (8)..(8)

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61 <223> OTHER INFORMATION: Xaa represents Pro or Gly

63 <220> FEATURE:

64 <221> NAME/KEY: MOD_RES

65 <222> LOCATION: (10)..(10)

66 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp, Gly

68 <220> FEATURE:

69 <221> NAME/KEY: MOD_RES

70 <222> LOCATION: (11)..(11)

71 <223> OTHER INFORMATION: Xaa represents Citrulline, Gly, Ser or Thr

73 <220> FEATURE:

74 <221> NAME/KEY: MOD_RES

75 <222> LOCATION: (12)..(12)

76 <223> OTHER INFORMATION: Xaa represents Citrulline

78 <220> FEATURE:

79 <221> NAME/KEY: MOD_RES

80 <222> LOCATION: (13)..(13)

81 <223> OTHER INFORMATION: Xaa represents Gly

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84 <221> NAME/KEY: MOD_RES

85 <222> LOCATION: (14)..(14)

86 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or

Trp

88 <220> FEATURE:

89 <221> NAME/KEY: MOD_RES

90 <222> LOCATION: (15)..(15)

91 <223> OTHER INFORMATION: Xaa represent Arg, Lys, His, Asp, Glu, Ser, Thr, Gln, Asn,

Tyr,

92 Phe or Trp

94 <220> FEATURE:

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96 <222> LOCATION: (17)..(17)

97 <223> OTHER INFORMATION: Xaa represents Gly

99 <220> FEATURE:

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101 <222> LOCATION: (18)..(18)

102 <223> OTHER INFORMATION: Xaa represents Tyr, His, Lys, Arg, Asp, Glu, Ser, Thr, Gln,

Asn,

103 Phe, Trp

105 <400> SEQUENCE: 1

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107 1 5 10 15

W--> 109 Xaa Xaa

112 <210> SEQ ID NO: 2

113 <211> LENGTH: 15

114 <212> TYPE: PRT

115 <213> ORGANISM: Artificial Sequence

117 <220> FEATURE:

118 <223> OTHER INFORMATION: Synthetic Peptides

W--> 119 <220> FEATURE:

120 <221> NAME/KEY: MOD_RES

121 <222> LOCATION: (1)..(1)

122 <223> OTHER INFORMATION: Xaa represents Ile, Leu, Val, Ala or Met

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Input Set : A:\INNS031.ST25.txt

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or Trp
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131 <222> LOCATION: (3)..(3)
132 <223> OTHER INFORMATION: Xaa represents Gly
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135 <221> NAME/KEY: MOD_RES
136 <222> LOCATION: (4)..(4)
137 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe
or Trp
W--> 139 <220> FEATURE:
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141 <222> LOCATION: (5)..(5)
142 <223> OTHER INFORMATION: Xaa represents Pro or Gly
W--> 144 <220> FEATURE:
145 <221> NAME/KEY: MOD_RES
146 <222> LOCATION: (7)..(7)
147 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp or Gly
W--> 149 <220> FEATURE:
150 <221> NAME/KEY: MOD_RES
151 <222> LOCATION: (8)..(8)
152 <223> OTHER INFORMATION: Xaa represents Citrulline, Gly, Ser or Thr
W--> 154 <220> FEATURE:
155 <221> NAME/KEY: MOD_RES
156 <222> LOCATION: (9)..(9)
157 <223> OTHER INFORMATION: Xaa represents Citrulline
W--> 159 <220> FEATURE:
160 <221> NAME/KEY: MOD_RES
161 <222> LOCATION: (10)..(10)
162 <223> OTHER INFORMATION: Xaa represents Gly
W--> 164 <220> FEATURE:
165 <221> NAME/KEY: MOD_RES
166 <222> LOCATION: (11)..(11)
167 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe
or Trp
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170 <221> NAME/KEY: MOD_RES
171 <222> LOCATION: (12)..(12)
172 <223> OTHER INFORMATION: Xaa represents Arg, Lys, His, Asp, Glu, Ser, Thr, Gln, Asn,
Tyr,
173 Phe or Trp
W--> 175 <220> FEATURE:
176 <221> NAME/KEY: MOD_RES
177 <222> LOCATION: (14)..(14)
178 <223> OTHER INFORMATION: Xaa represents Gly
W--> 180 <220> FEATURE:
181 <221> NAME/KEY: MOD_RES
182 <222> LOCATION: (15)..(15)
183 <223> OTHER INFORMATION: Xaa represents Tyr, His, Lys, Arg, Asp, Glu, Ser, Thr, Gln,

Asn,

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184 Phe or Trp

187 <400> SEQUENCE: 2

189 Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa

190 1 5 10 15

192 <210> SEQ ID NO: 3

193 <211> LENGTH: 14

194 <212> TYPE: PRT

195 <213> ORGANISM: Artificial Sequence

197 <220> FEATURE:

198 <223> OTHER INFORMATION: Synthetic Peptides

200 <220> FEATURE:

201 <221> NAME/KEY: MOD_RES

202 <222> LOCATION: (1)..(1)

203 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe

or Trp

205 <220> FEATURE:

206 <221> NAME/KEY: MOD_RES

207 <222> LOCATION: (2)..(2)

208 <223> OTHER INFORMATION: Xaa represents Gly

210 <220> FEATURE:

211 <221> NAME/KEY: MOD_RES

212 <222> LOCATION: (3)..(3)

213 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe

or Trp

215 <220> FEATURE:

216 <221> NAME/KEY: MOD_RES

217 <222> LOCATION: (4)..(4)

218 <223> OTHER INFORMATION: Xaa represents Pro or Gly

220 <220> FEATURE:

221 <221> NAME/KEY: MOD_RES

222 <222> LOCATION: (6)..(6)

223 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp or Gly

225 <220> FEATURE:

226 <221> NAME/KEY: MOD_RES

227 <222> LOCATION: (7)..(7)

228 <223> OTHER INFORMATION: Xaa represents Citrulline, Gly, Ser or Thr

230 <220> FEATURE:

231 <221> NAME/KEY: MOD_RES

232 <222> LOCATION: (8)..(8)

233 <223> OTHER INFORMATION: Xaa represents Citrulline

235 <220> FEATURE:

236 <221> NAME/KEY: MOD_RES

237 <222> LOCATION: (9)..(9)

238 <223> OTHER INFORMATION: Xaa represents Gly

240 <220> FEATURE:

241 <221> NAME/KEY: MOD_RES

242 <222> LOCATION: (10)..(10)

243 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe

or Trp

246 <220> FEATURE:

247 <221> NAME/KEY: MOD_RES

248 <222> LOCATION: (11)..(11)

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Input Set : A:\INNS031.ST25.txt

Output Set: N:\CRF3\03052002\I747029A.raw

249 <223> OTHER INFORMATION: Xaa represents Arg, Lys, His, Asp, Glu, Ser, Thr, Gln, Asn, Tyr,

250 Phe or Trp

252 <220> FEATURE:

253 <221> NAME/KEY: MOD_RES

254 <222> LOCATION: (13)..(13)

255 <223> OTHER INFORMATION: Xaa represents Gly

257 <220> FEATURE:

258 <221> NAME/KEY: MOD_RES

259 <222> LOCATION: (14)..(14)

260 <223> OTHER INFORMATION: Xaa represents Tyr, His, Lys, Arg, Asp, Glu, Ser, Thr, Gln, Asn,

261 Phe or Trp

264 <400> SEQUENCE: 3

W/C 266 Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa

267 1 5 10

269 <210> SEQ ID NO: 4

270 <211> LENGTH: 18

271 <212> TYPE: PRT

272 <213> ORGANISM: Artificial Sequence

274 <220> FEATURE:

275 <223> OTHER INFORMATION: Synthetic Peptides

277 <220> FEATURE:

278 <221> NAME/KEY: MOD_RES

279 <222> LOCATION: (1)..(1)

280 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp, Glu, Asn, Gln, His, Lys or Arg

282 <220> FEATURE:

283 <221> NAME/KEY: MOD_RES

284 <222> LOCATION: (2)..(2)

285 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp, Glu, Asn, Gln, His, Lys or Arg

287 <220> FEATURE:

288 <221> NAME/KEY: MOD_RES

289 <222> LOCATION: (3)..(3)

290 <223> OTHER INFORMATION: Xaa represents Ser, Thr, Asp, Glu, Asn, Gln, His, Lys or Arg

292 <220> FEATURE:

293 <221> NAME/KEY: MOD_RES

294 <222> LOCATION: (4)..(4)

295 <223> OTHER INFORMATION: Xaa represents Ile, Leu, Val, Ala or Met

297 <220> FEATURE:

298 <221> NAME/KEY: MOD_RES

299 <222> LOCATION: (5)..(5)

300 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or Trp

302 <220> FEATURE:

303 <221> NAME/KEY: MOD_RES

304 <222> LOCATION: (6)..(6)

305 <223> OTHER INFORMATION: Xaa represents Gly

307 <220> FEATURE:

308 <221> NAME/KEY: MOD_RES

309 <222> LOCATION: (7)..(7)

310 <223> OTHER INFORMATION: Xaa represents His, Lys, Arg, Asp, Glu, Ser, Thr, Tyr, Phe or Trp

312 <220> FEATURE:

F/T

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 03/05/2002

PATENT APPLICATION: US/09/747,029A

TIME: 09:56:04

Input Set : A:\INNS031.ST25.txt

Output Set: N:\CRF3\03052002\I747029A.raw

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L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22